BlowLTD's BDT Payment API

BlowLTD's Backend Developer Test API

This API is the answer to BlowLTD's Backend Developer Test. It represents part of a payments system API.

Requirements

- API should be RESTFUL
- API should be able to
    - Fetch a payment resource
    - Create, update and delete a payment resource
    - List a collection of payment resources
    - Persist resource state (e.g. to a database)

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Version: V1

Access

Methods

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Default

`GET /api/v1/payments` [Up](#)

Returns a list of payments. (**apiV1PaymentsGet**)

Returns a list of the payments in the database.

Query parameters

limit (optional)
Query Parameter — The maximum number of payments to return in the response

offset (optional)
Query Parameter — The number of payments to skip before returning the response

Return type
array[[Payment](#)]

Example data

Content-Type: application/json

```
[ {
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
}, {
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
} ]
```

Produces

This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses
200
A JSON array of payments.
500
A server error occurred while processing request.

DELETE /api/v1/payments/{id}

Delete a payment. (**apiV1PaymentsIdDelete**)

Deletes a payment matching the provided ID, from the database, if it exists.

Path parameters

id (required)
Path Parameter — The payment ID

Responses
204
Payment was deleted.
404
No payment matching the provided ID exists in the database.
500
A server error occurred while processing request.

GET /api/v1/payments/{id}

Returns a payment. (**apiV1PaymentsIdGet**)

Returns a single payment from the database, if it exists and matches the provided ID.

Path parameters

id (required)
Path Parameter — The payment ID

Return type
[Payment](#)

Example data
Content-Type: application/json

```json
{
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
}
```

Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses
200
A JSON detail of the payment. [Payment](#)
400
Payment retrieval failed. ID is not valid. [Error](#)
404
No payment matching the provided ID exists in the database.
500
A server error occurred while processing request.

PATCH /api/v1/payments/{id}   [Up](#)

Update a payment. (**apiV1PaymentsIdPatch**)

Updates a payment matching the provided ID, in the database, if it exists.

Path parameters

id (required)
Path Parameter — The payment ID

Return type
[Payment](#)

Example data
Content-Type: application/json

```json
{
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
}
```

Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses
200
A JSON detail of the payment. [Payment](#)
400
Payment update failed. Client input is not valid. [Error](#)
404
No payment matching the provided ID exists in the database.
500
A server error occurred while processing request.

POST /api/v1/payments Up

Creates a payment. (**apiV1PaymentsPost**)

Creates a payment with the parameters sent in the request's body. Returns the payment details if successful.

Consumes
This API call consumes the following media types via the Content-Type request header:

- application/json

Request body

body [Payment](#) **(required)**
Body Parameter — The JSON detail of the payment

Return type
[Payment](#)

Example data
Content-Type: application/json

```
{
  "id" : "4ee3a8d8-ca7b-4290-a52c-dd5b6165ec43",
  "organisation_id" : "743d5b63-8e6f-432e-a8fa-c5d8d2ee5fcb",
  "version" : 0,
  "attributes" : {
    "$ref" : "#/components/schemas/PaymentAttributes/example"
  }
}
```

Produces
This API call produces the following media types according to the Accept request header; the media type will be conveyed by the Content-Type response header.

- application/json

Responses
201
A JSON detail of the payment. The creation was successful. [Payment](#)
400
Payment creation failed. Client input is not valid. [Error](#)
500
A server error occurred while processing request.

Models

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Currency   **Up**

Currency enumerator. Contains allowed values for currency type.

Error   **Up**

Error object. Used in error responses that require extra details.

message (optional)
String

type (optional)
String

code (optional)
String

Id   **Up**

Id string. Contains the pattern for allowed IDs (UUID v4).

Payment   **Up**

Payment object. Main API resource.

id (optional)
Id

version (optional)
BigDecimal

organisation_id (optional)
Id

attributes (optional)
PaymentAttributes

PaymentAttributes   **Up**

Payment Attributes object. Contains most of the information related to a payment.

amount (optional)
BigDecimal Amount paid

currency (optional)
Currency

beneficiary_party_id (optional)
Id

debtor_party_id (optional)
Id

sponsor_party_id (optional)
Id

payment_scheme_type (optional)
PaymentSchemeType

payment_type (optional)
PaymentType

scheme_payment_type (optional)
SchemePaymentType

scheme_payment_sub_type (optional)
SchemePaymentSubType

reference (optional)
String

payment_purpose (optional)
String

end_to_end_reference (optional)
String

processing_timestamp (optional)
BigDecimal Timestamp for the payment's processing operation. Replaces the processing_date string.

numeric_reference (optional)
String

payment_id (optional)
String

PaymentSchemeType

Payment Scheme Type enumerator.

PaymentType

Payment Type enumerator.

SchemePaymentSubType

Scheme Payment Sub-Type enumerator.

SchemePaymentType

Scheme Payment Type enumerator.